

FIG. 1a is a block diagram of a system architecture. The system is divided into two main sections by a dashed line. The top section, labeled 'Object Space 150', contains a 3D wireframe model of a cube with internal planes and a point, representing an object in a 3D space. The bottom section contains a hierarchical structure of symbols and segments. At the top of this section is a 'Parent Identifier 110'. Below it are three 'Master Symbol' blocks (115a, 115b, 115c). Each Master Symbol block contains three 'Symbol' blocks (120a1, 120a2, 120a3 for 115a; 120b1, 120b2, 120b3 for 115b; 120c1, 120c2, 120c3 for 115c). Arrows point from the Parent Identifier 110 to each Master Symbol block. Dashed arrows point from each Symbol block to a corresponding block in the 'Object Space 150' section: Symbol 120a1 to 140a, Symbol 120b2 to 140b, and Symbol 120c3 to 140c. Solid arrows point from each of these blocks (140a, 140b, 140c) to a central 'Object 130' block. A dashed arrow also points from the 3D model in Object Space 150 to Object 130.

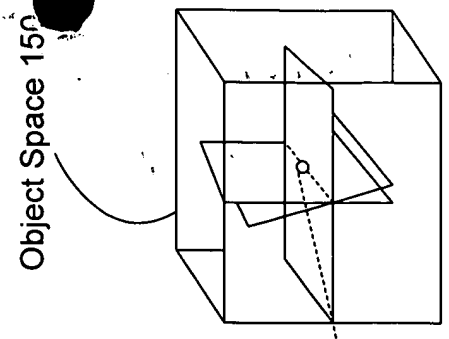
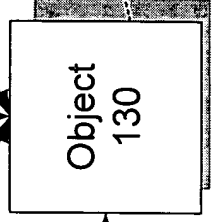
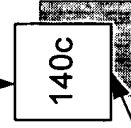
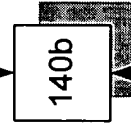
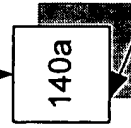
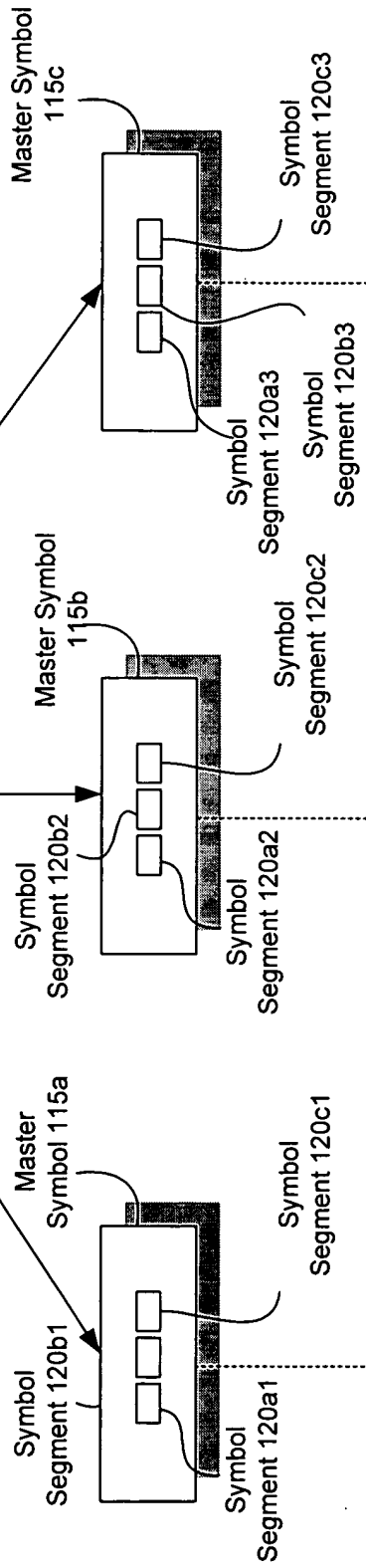


FIG. 1a

FIG. 1b is a schematic diagram of a system 100, in accordance with an embodiment of the present invention. The system 100 includes a plurality of components 110a, 110b, 110c, 110d, 115a, 115b, 115c, 115d, 115e, 115f, 115g, 115h, 115i, 115j, 115k, 115l, 115m, 115n, 115o, 115p, 115q, 115r, 115s, 115t, 115u, 115v, 115w, 115x, 115y, 115z, 115aa, 115ab, 115ac, 115ad, 115ae, 115af, 115ag, 115ah, 115ai, 115aj, 115ak, 115al, 115am, 115an, 115ao, 115ap, 115aq, 115ar, 115as, 115at, 115au, 115av, 115aw, 115ax, 115ay, 115az, 115ba, 115bb, 115bc, 115bd, 115be, 115bf, 115bg, 115bh, 115bi, 115bj, 115bk, 115bl, 115bm, 115bn, 115bo, 115bp, 115bq, 115br, 115bs, 115bt, 115bu, 115bv, 115bw, 115bx, 115by, 115bz, 115ca, 115cb, 115cc, 115cd, 115ce, 115cf, 115cg, 115ch, 115ci, 115cj, 115ck, 115cl, 115cm, 115cn, 115co, 115cp, 115cq, 115cr, 115cs, 115ct, 115cu, 115cv, 115cw, 115cx, 115cy, 115cz, 115da, 115db, 115dc, 115dd, 115de, 115df, 115dg, 115dh, 115di, 115dj, 115dk, 115dl, 115dm, 115dn, 115do, 115dp, 115dq, 115dr, 115ds, 115dt, 115du, 115dv, 115dw, 115dx, 115dy, 115dz, 115ea, 115eb, 115ec, 115ed, 115ee, 115ef, 115eg, 115eh, 115ei, 115ej, 115ek, 115el, 115em, 115en, 115eo, 115ep, 115eq, 115er, 115es, 115et, 115eu, 115ev, 115ew, 115ex, 115ey, 115ez, 115fa, 115fb, 115fc, 115fd, 115fe, 115ff, 115fg, 115fh, 115fi, 115fj, 115fk, 115fl, 115fm, 115fn, 115fo, 115fp, 115fq, 115fr, 115fs, 115ft, 115fu, 115fv, 115fw, 115fx, 115fy, 115fz, 115ga, 115gb, 115gc, 115gd, 115ge, 115gf, 115gg, 115gh, 115gi, 115gj, 115gk, 115gl, 115gm, 115gn, 115go, 115gp, 115gq, 115gr, 115gs, 115gt, 115gu, 115gv, 115gw, 115gx, 115gy, 115gz, 115ha, 115hb, 115hc, 115hd, 115he, 115hf, 115hg, 115hi, 115hj, 115hk, 115hl, 115hm, 115hn, 115ho, 115hp, 115hq, 115hr, 115hs, 115ht, 115hu, 115hv, 115hw, 115hx, 115hy, 115hz, 115ia, 115ib, 115ic, 115id, 115ie, 115if, 115ig, 115ih, 115ii, 115ij, 115ik, 115il, 115im, 115in, 115io, 115ip, 115iq, 115ir, 115is, 115it, 115iu, 115iv, 115iw, 115ix, 115iy, 115iz, 115ja, 115jb, 115jc, 115jd, 115je, 115jf, 115jg, 115jh, 115ji, 115jj, 115jk, 115jl, 115jm, 115jn, 115jo, 115jp, 115jq, 115jr, 115js, 115jt, 115ju, 115jv, 115jw, 115jx, 115jy, 115jz, 115ka, 115kb, 115kc, 115kd, 115ke, 115kf, 115kg, 115kh, 115ki, 115kj, 115kl, 115km, 115kn, 115ko, 115kp, 115kq, 115kr, 115ks, 115kt, 115ku, 115kv, 115kw, 115kx, 115ky, 115kz, 115la, 115lb, 115lc, 115ld, 115le, 115lf, 115lg, 115lh, 115li, 115lj, 115lk, 115ll, 115lm, 115ln, 115lo, 115lp, 115lq, 115lr, 115ls, 115lt, 115lu, 115lv, 115lw, 115lx, 115ly, 115lz, 115ma, 115mb, 115mc, 115md, 115me, 115mf, 115mg, 115mh, 115mi, 115mj, 115mk, 115ml, 115mm, 115mn, 115mo, 115mp, 115mq, 115mr, 115ms, 115mt, 115mu, 115mv, 115mw, 115mx, 115my, 115mz, 115na, 115nb, 115nc, 115nd, 115ne, 115nf, 115ng, 115nh, 115ni, 115nj, 115nk, 115nl, 115nm, 115nn, 115no, 115np, 115nq, 115nr, 115ns, 115nt, 115nu, 115nv, 115nw, 115nx, 115ny, 115nz, 115oa, 115ob, 115oc, 115od, 115oe, 115of, 115og, 115oh, 115oi, 115oj, 115ok, 115ol, 115om, 115on, 115oo, 115op, 115oq, 115or, 115os, 115ot, 115ou, 115ov, 115ow, 115ox, 115oy, 115oz, 115pa, 115pb, 115pc, 115pd, 115pe, 115pf, 115pg, 115ph, 115pi, 115pj, 115pk, 115pl, 115pm, 115pn, 115po, 115pp, 115pq, 115pr, 115ps, 115pt, 115pu, 115pv, 115pw, 115px, 115py, 115pz, 115qa, 115qb, 115qc, 115qd, 115qe, 115qf, 115qg, 115qh, 115qi, 115qj, 115qk, 115ql, 115qm, 115qn, 115qo, 115qp, 115qq, 115qr, 115qs, 115qt, 115qu, 115qv, 115qw, 115qx, 115qy, 115qz, 115ra, 115rb, 115rc, 115rd, 115re, 115rf, 115rg, 115rh, 115ri, 115rj, 115rk, 115rl, 115rm, 115rn, 115ro, 115rp, 115rq, 115rr, 115rs, 115rt, 115ru, 115rv, 115rw, 115rx, 115ry, 115rz, 115sa, 115sb, 115sc, 115sd, 115se, 115sf, 115sg, 115sh, 115si, 115sj, 115sk, 115sl, 115sm, 115sn, 115so, 115sp, 115sq, 115sr, 115ss, 115st, 115su, 115sv, 115sw, 115sx, 115sy, 115sz, 115ta, 115tb, 115tc, 115td, 115te, 115tf, 115tg, 115th, 115ti, 115tj, 115tk, 115tl, 115tm, 115tn, 115to, 115tp, 115tq, 115tr, 115ts, 115tt, 115tu, 115tv, 115tw, 115tx, 115ty, 115tz, 115ua, 115ub, 115uc, 115ud, 115ue, 115uf, 115ug, 115uh, 115ui, 115uj, 115uk, 115ul, 115um, 115un, 115uo, 115up, 115uq, 115ur, 115us, 115ut, 115uu, 115uv, 115uw, 115ux, 115uy, 115uz, 115va, 115vb, 115vc, 115vd, 115ve, 115vf, 115vg, 115vh, 115vi, 115vj, 115vk, 115vl, 115vm, 115vn, 115vo, 115vp, 115vq, 115vr, 115vs, 115vt, 115vu, 115vv, 115vw, 115vx, 115vy, 115vz, 115wa, 115wb, 115wc, 115wd, 115we, 115wf, 115wg, 115wh, 115wi, 115wj, 115wk, 115wl, 115wm, 115wn, 115wo, 115wp, 115wq, 115wr, 115ws, 115wt, 115wu, 115wv, 115ww, 115wx, 115wy, 115wz, 115xa, 115xb, 115xc, 115xd, 115xe, 115xf, 115xg, 115xh, 115xi, 115xj, 115xk, 115xl, 115xm, 115xn, 115xo, 115xp, 115xq, 115xr, 115xs, 115xt, 115xu, 115xv, 115xw, 115xx, 115xy, 115xz, 115ya, 115yb, 115yc, 115yd, 115ye, 115yf, 115yg, 115yh, 115yi, 115yj, 115yk, 115yl, 115ym, 115yn, 115yo, 115yp, 115yq, 115yr, 115ys, 115yt, 115yu, 115yv, 115yw, 115yx, 115yy, 115yz, 115za, 115zb, 115zc, 115zd, 115ze, 115zf, 115zg, 115zh, 115zi, 115zj, 115zk, 115zl, 115zm, 115zn, 115zo, 115zp, 115zq, 115zr, 115zs, 115zt, 115zu, 115zv, 115zw, 115zx, 115zy, 115zz.

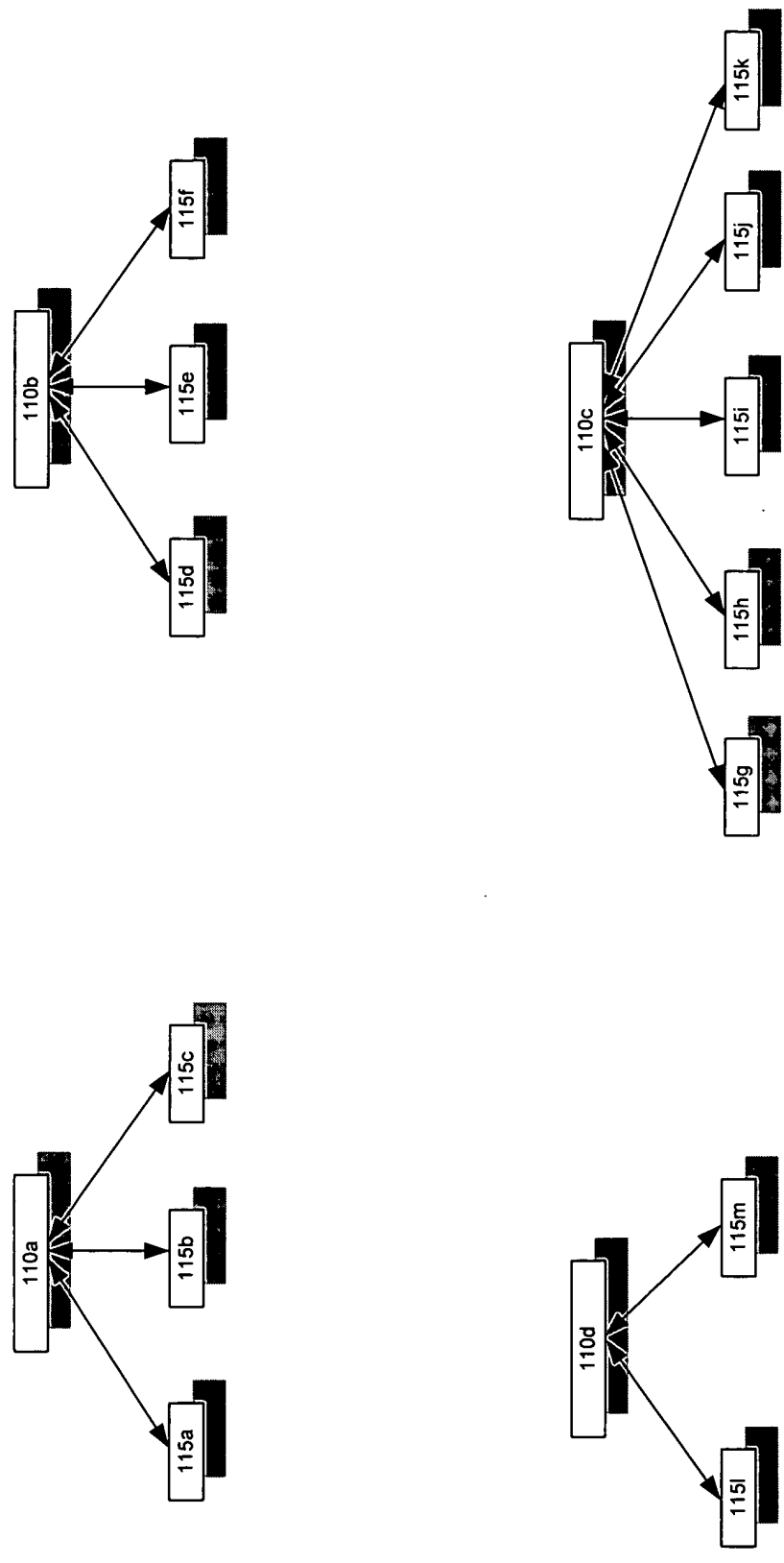


FIG. 1b

Symbol Template 145

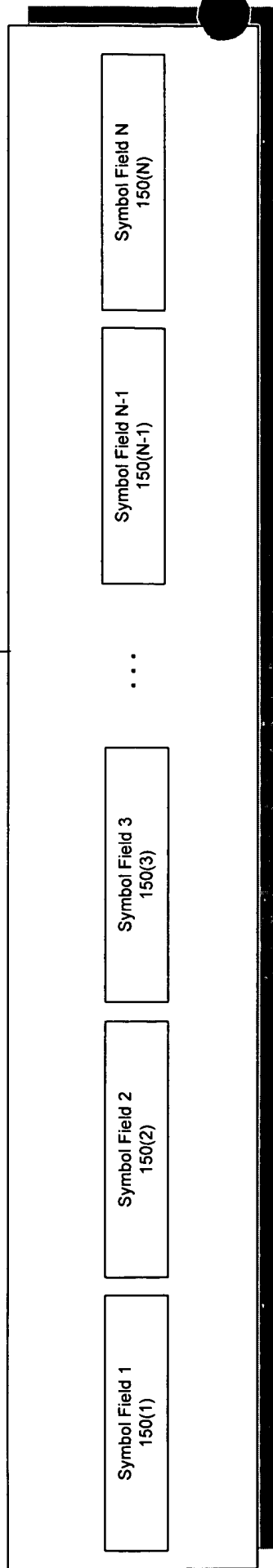


FIG. 1c

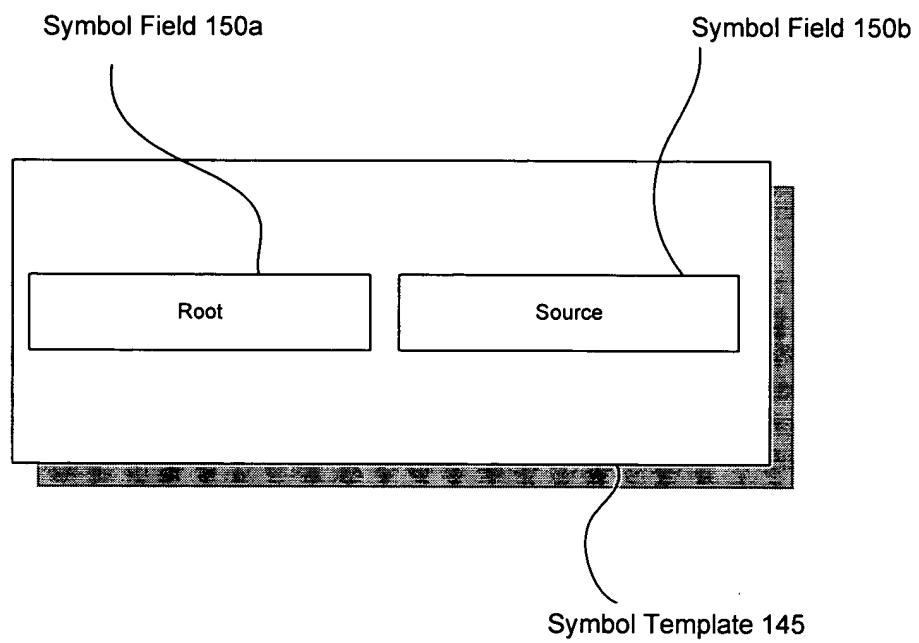


FIG. 1d

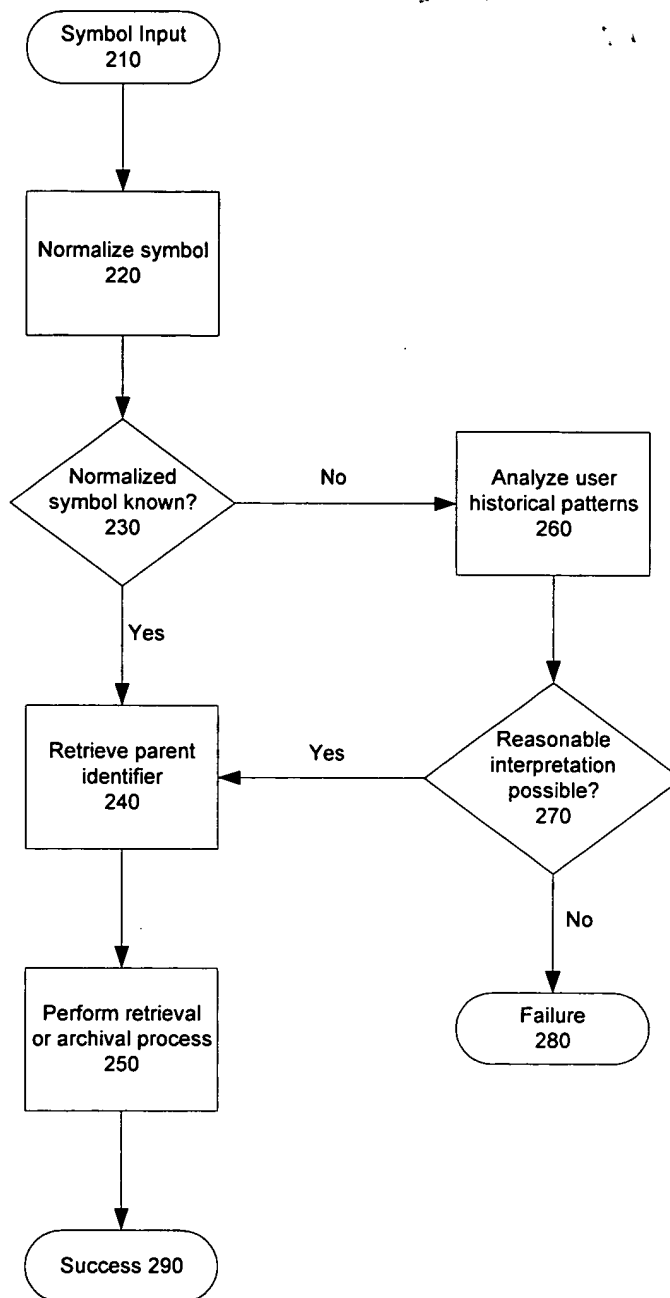


FIG. 2

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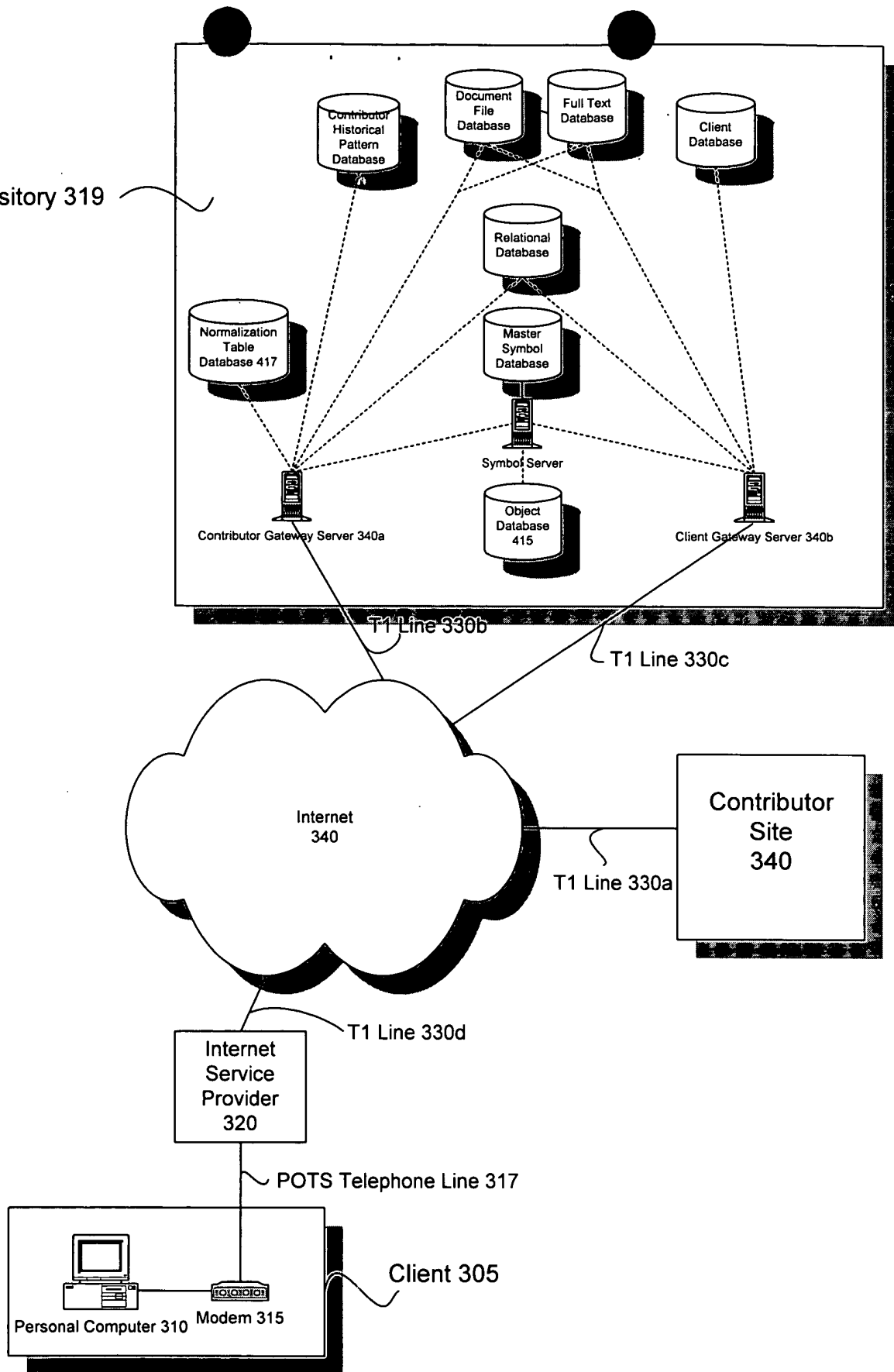


FIG. 3

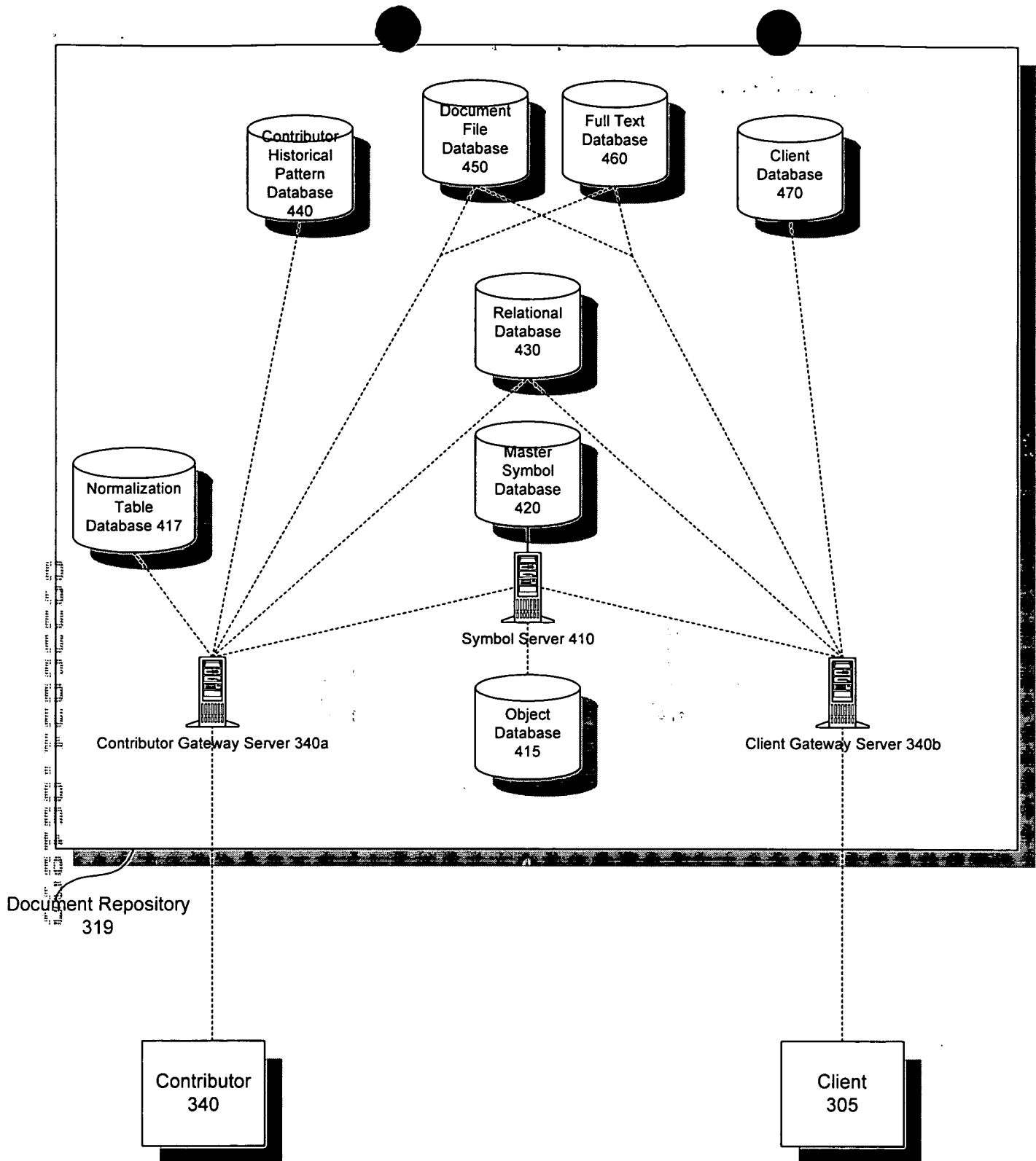


FIG. 4

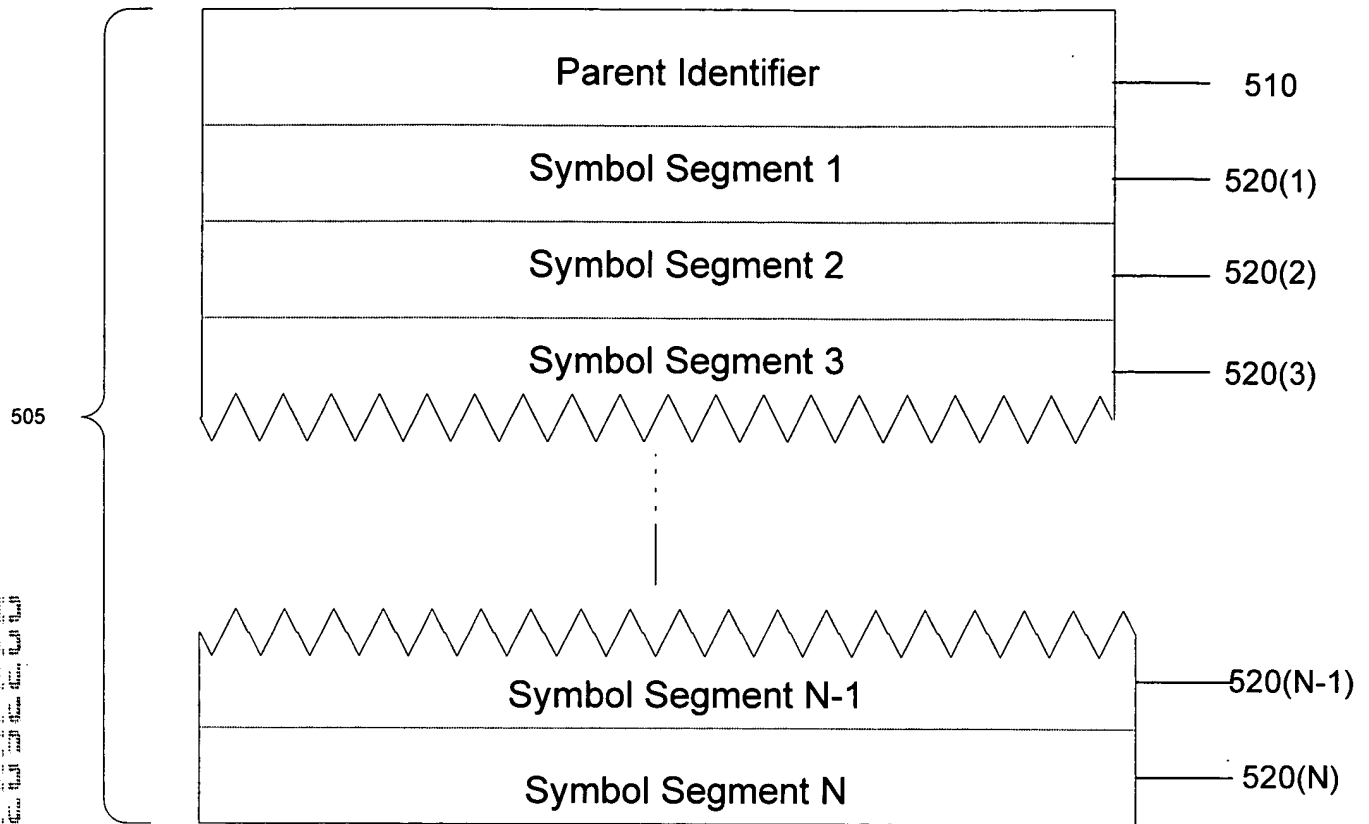


FIG. 5a

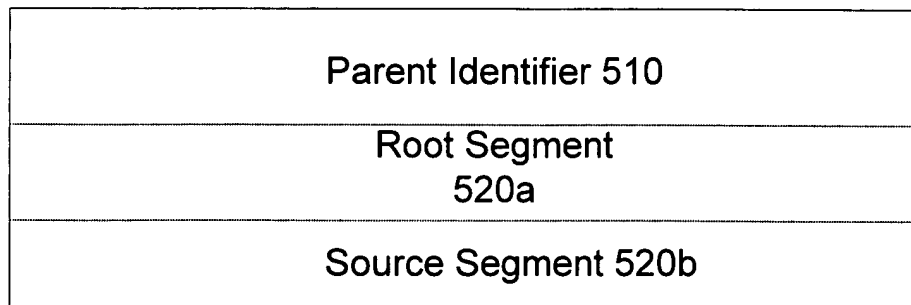


FIG. 5b



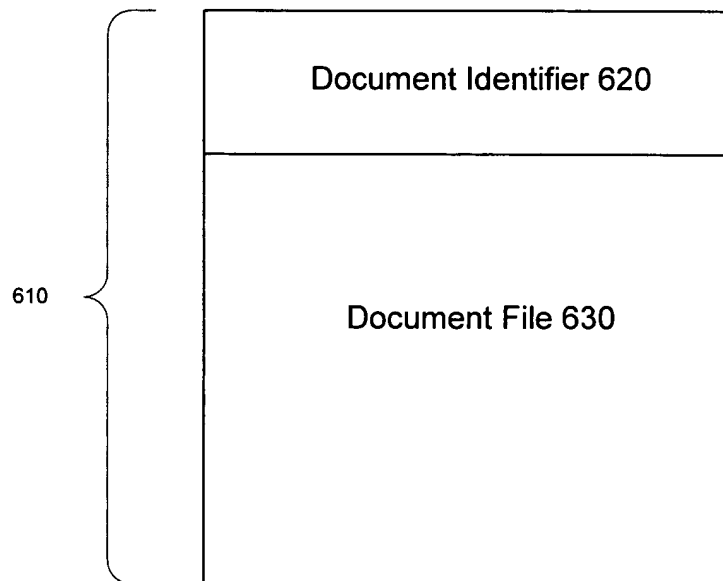


FIG. 6

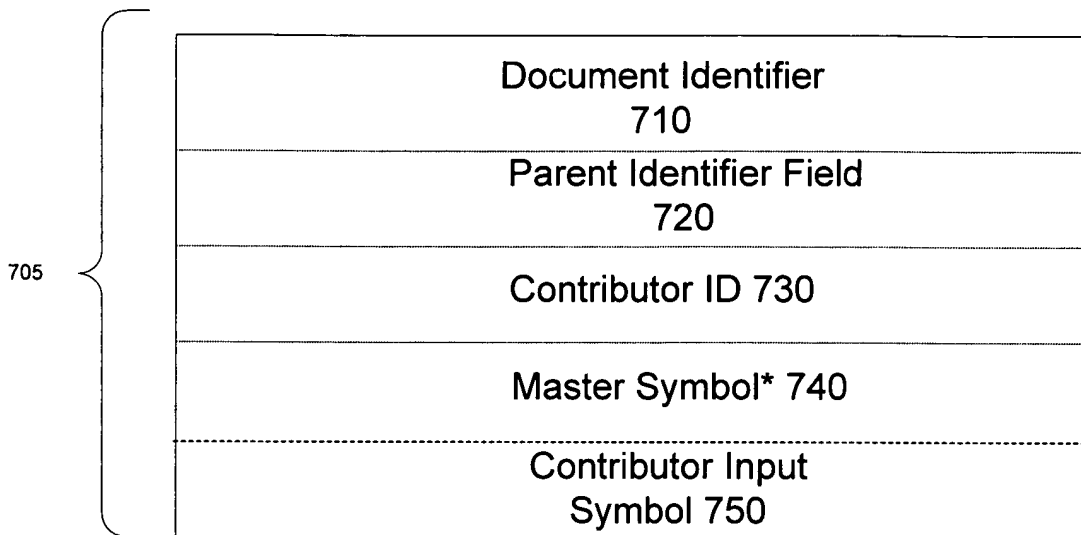


FIG. 7

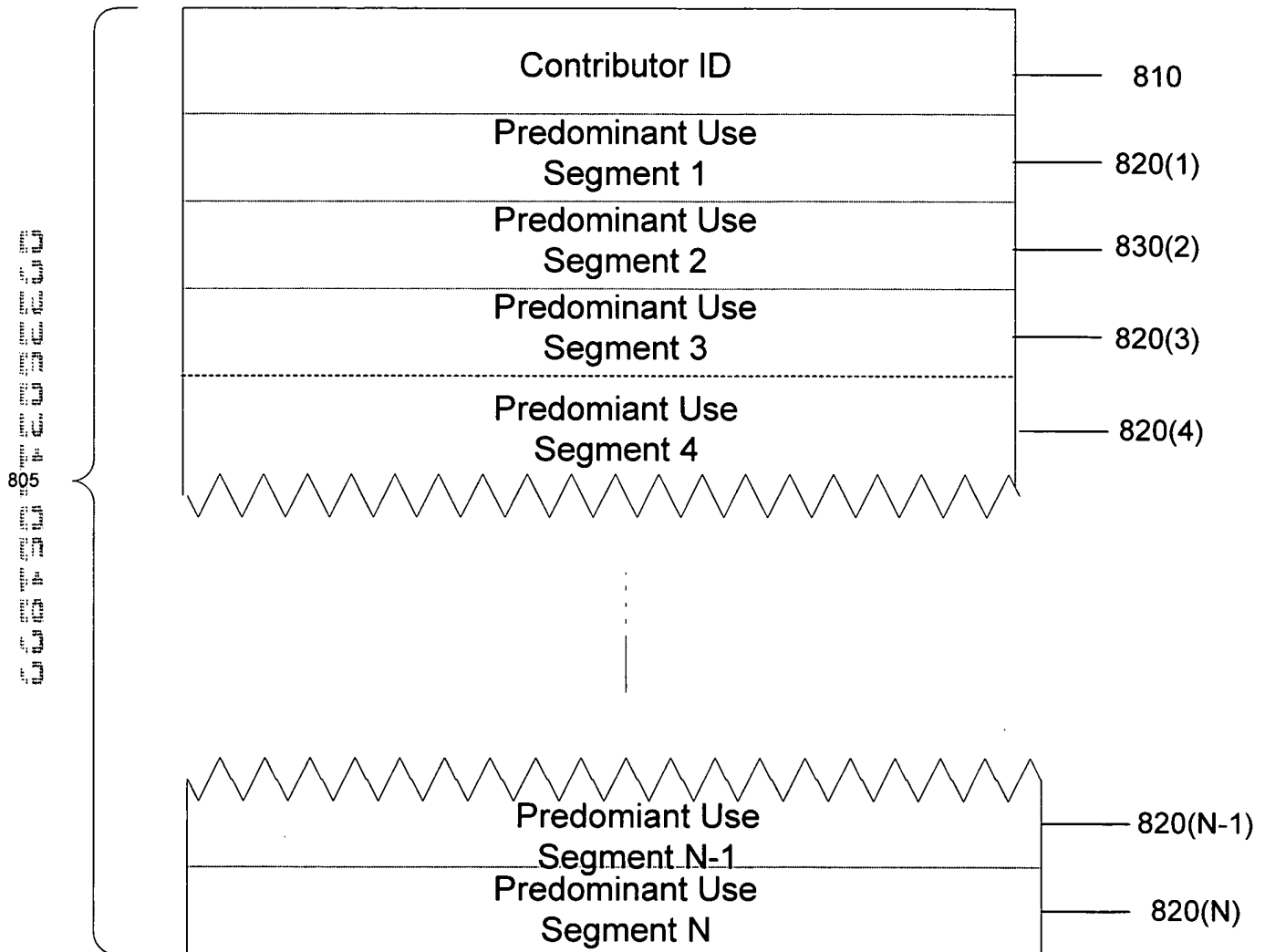


FIG. 8

FIG. 9 is a block diagram of a data structure 905. The data structure 905 includes a Client ID field 910, a Client Preference Segment 1 field 920(1), a Client Preference Segment 2 field 920(2), a Client Preference Segment 3 field 920(3), a Client Preference Segment 4 field 920(4), a Client Preference Segment N-1 field 920(N-1), and a Client Preference Segment N field 920(N). The Client Preference Segment 4 field 920(4) and the Client Preference Segment N-1 field 920(N-1) are indicated by dashed lines, suggesting they are part of a sequence of segments. The Client Preference Segment N-1 field 920(N-1) is indicated by a dashed line, suggesting it is part of a sequence of segments.

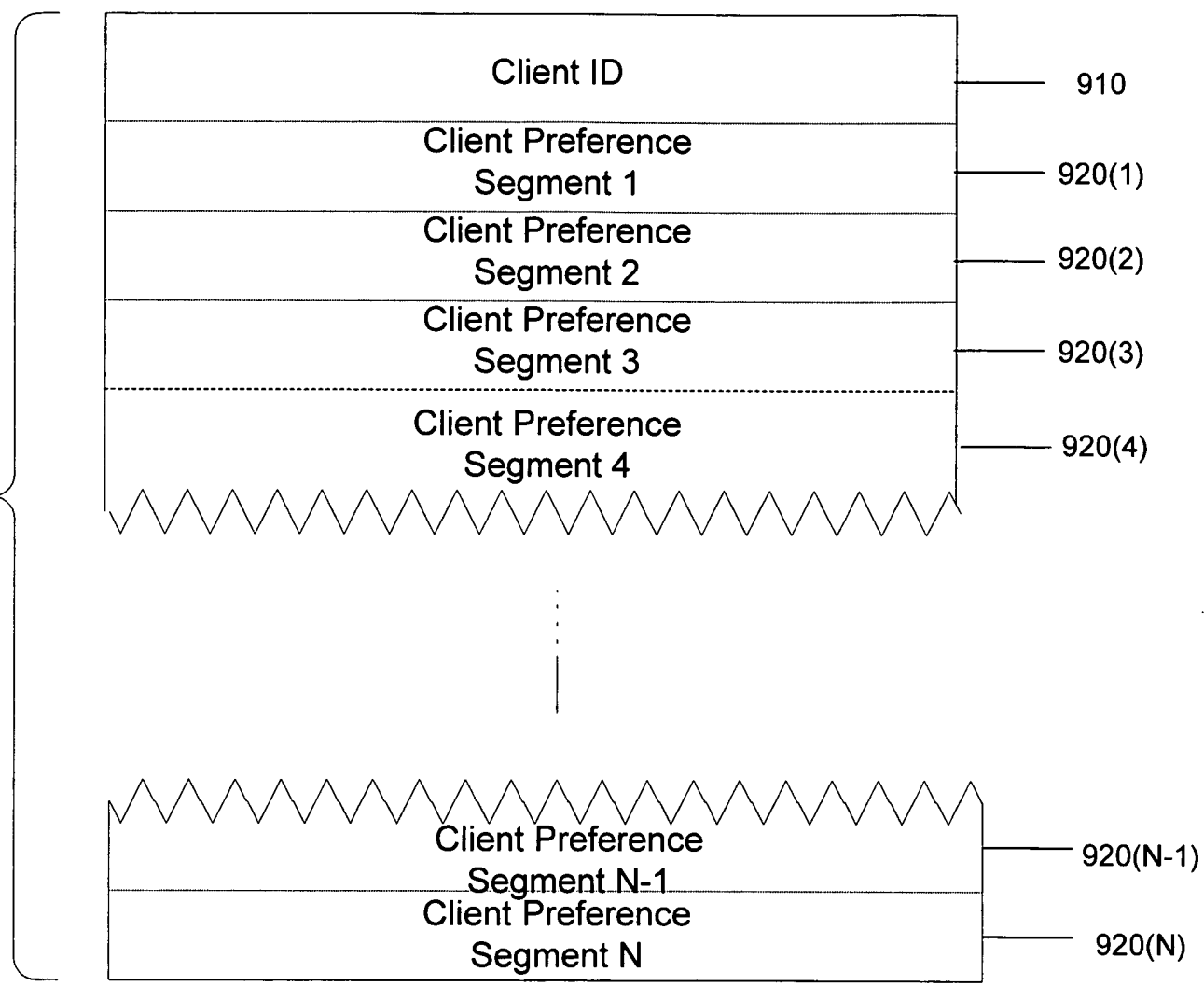


FIG. 9

FIG. 10 is a block diagram of a symbol owner structure 1005. The structure 1005 includes a Symbol Owner 1010, an Owner Symbol Segment 1020, and a Master Symbol Segment 1030.

1005

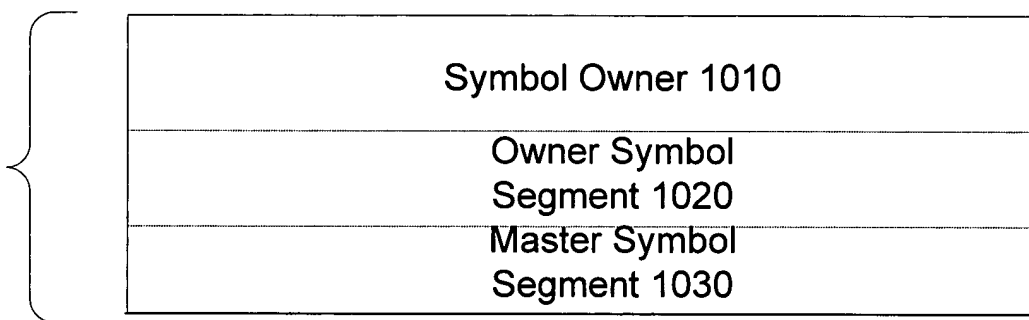


FIG. 10

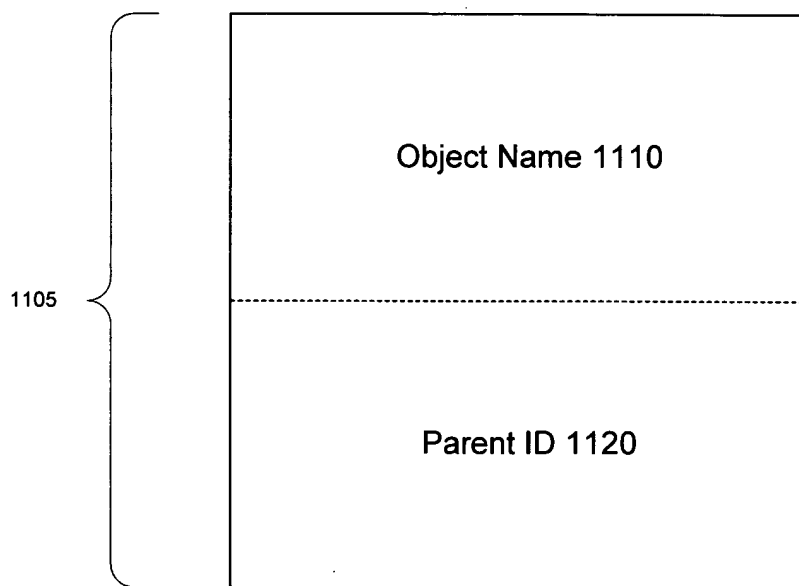


FIG. 11

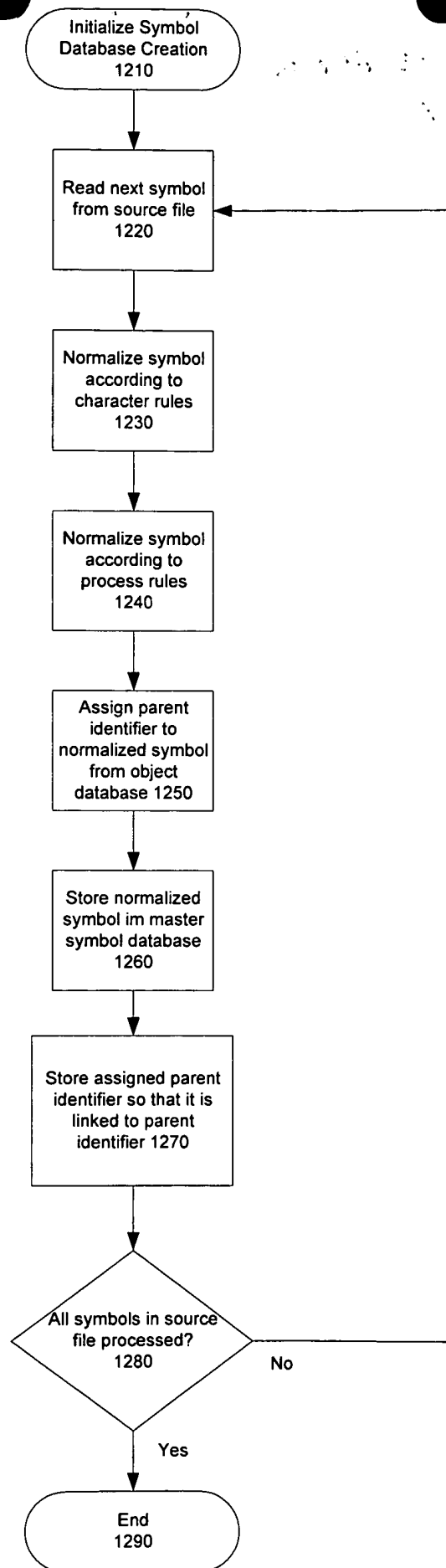


FIG. 12

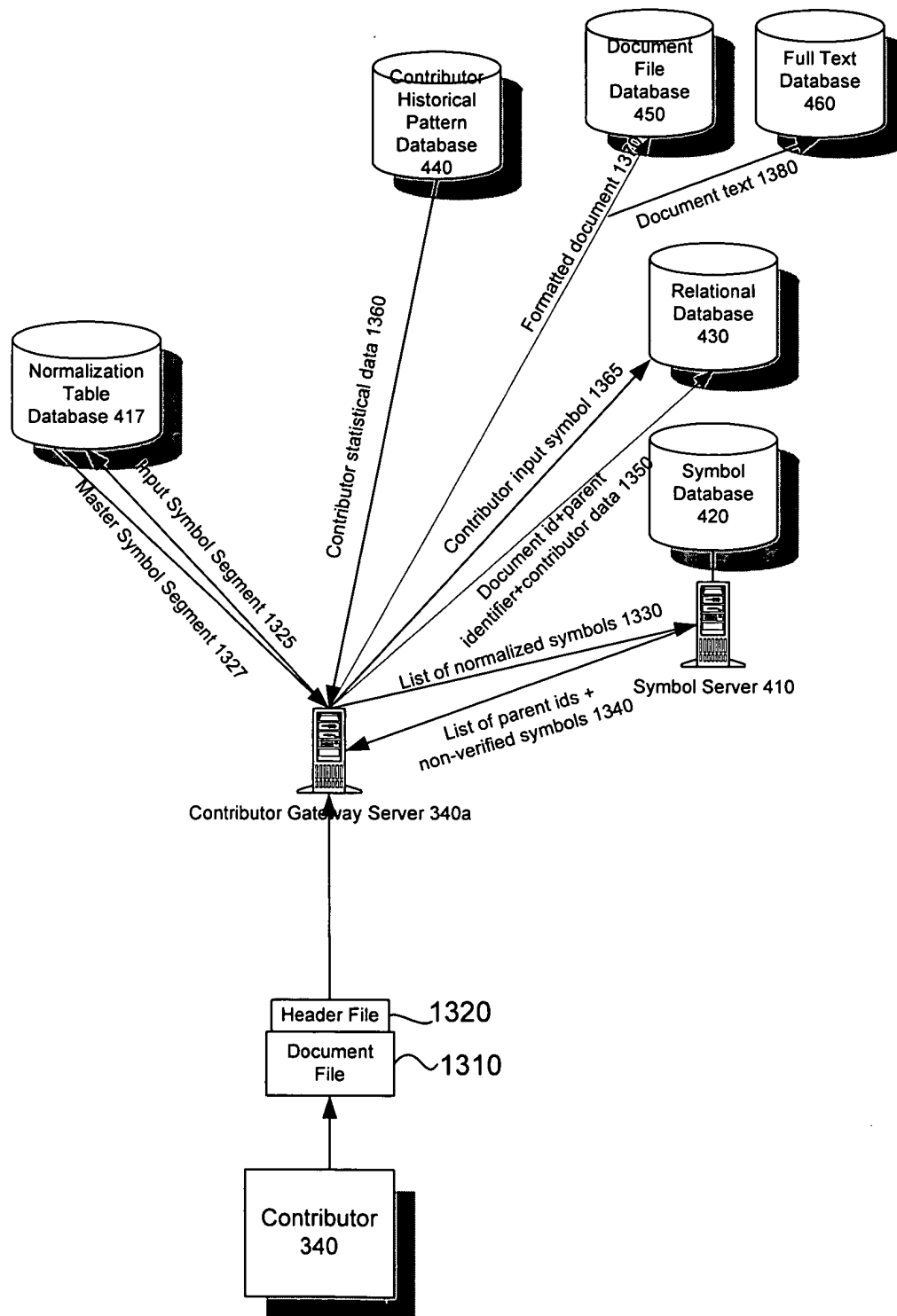


FIG. 13



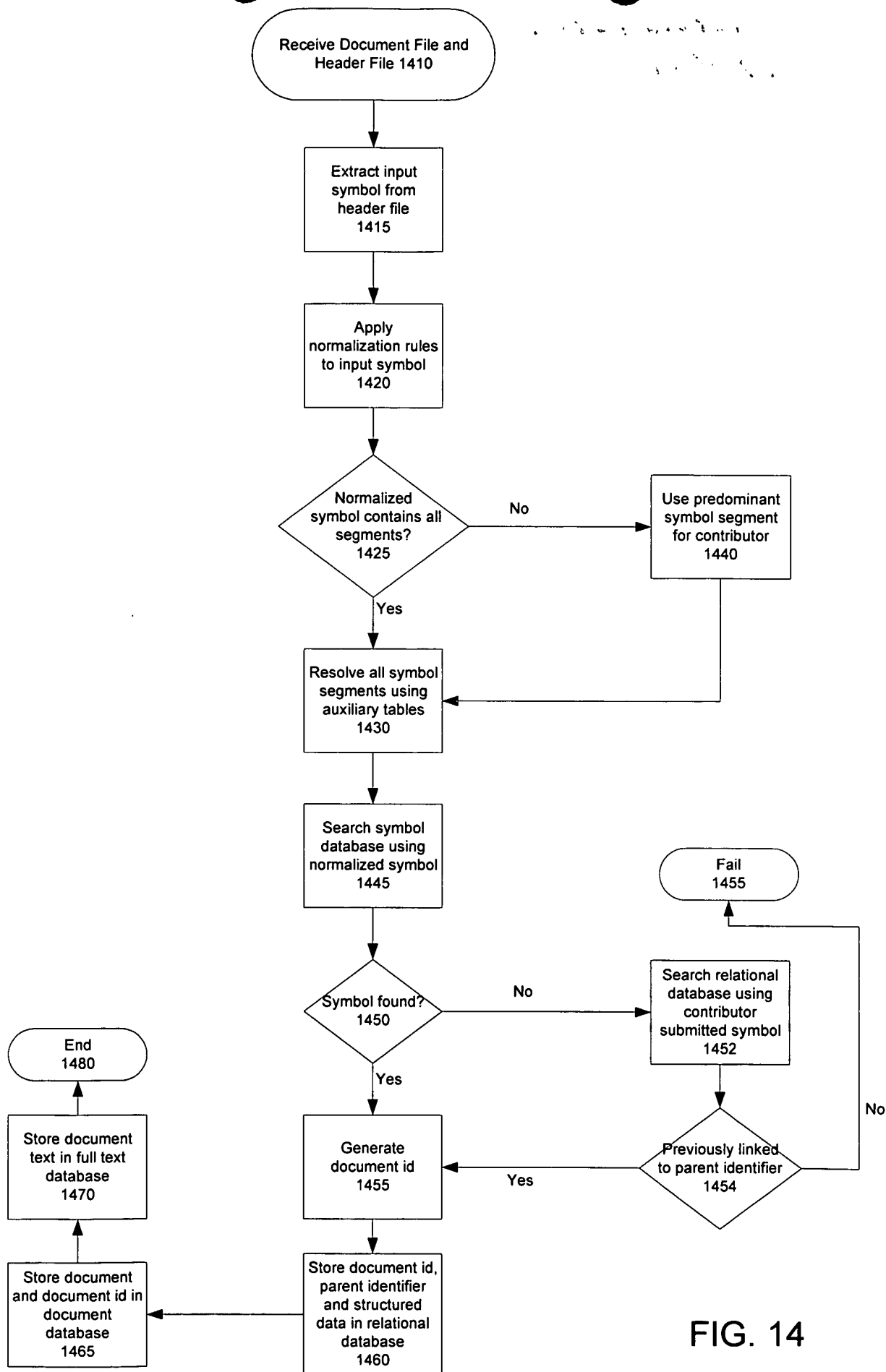


FIG. 14

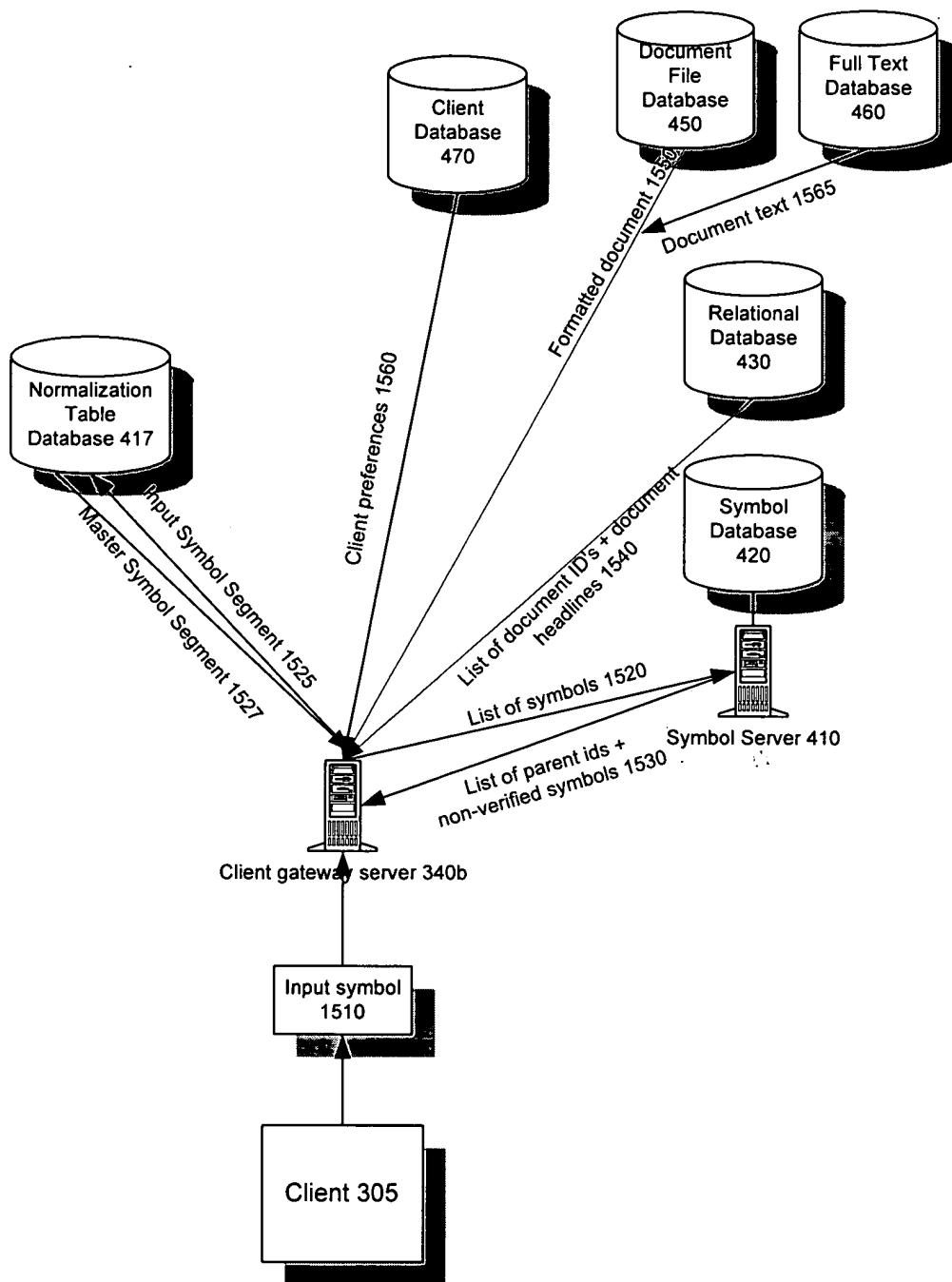


FIG. 15

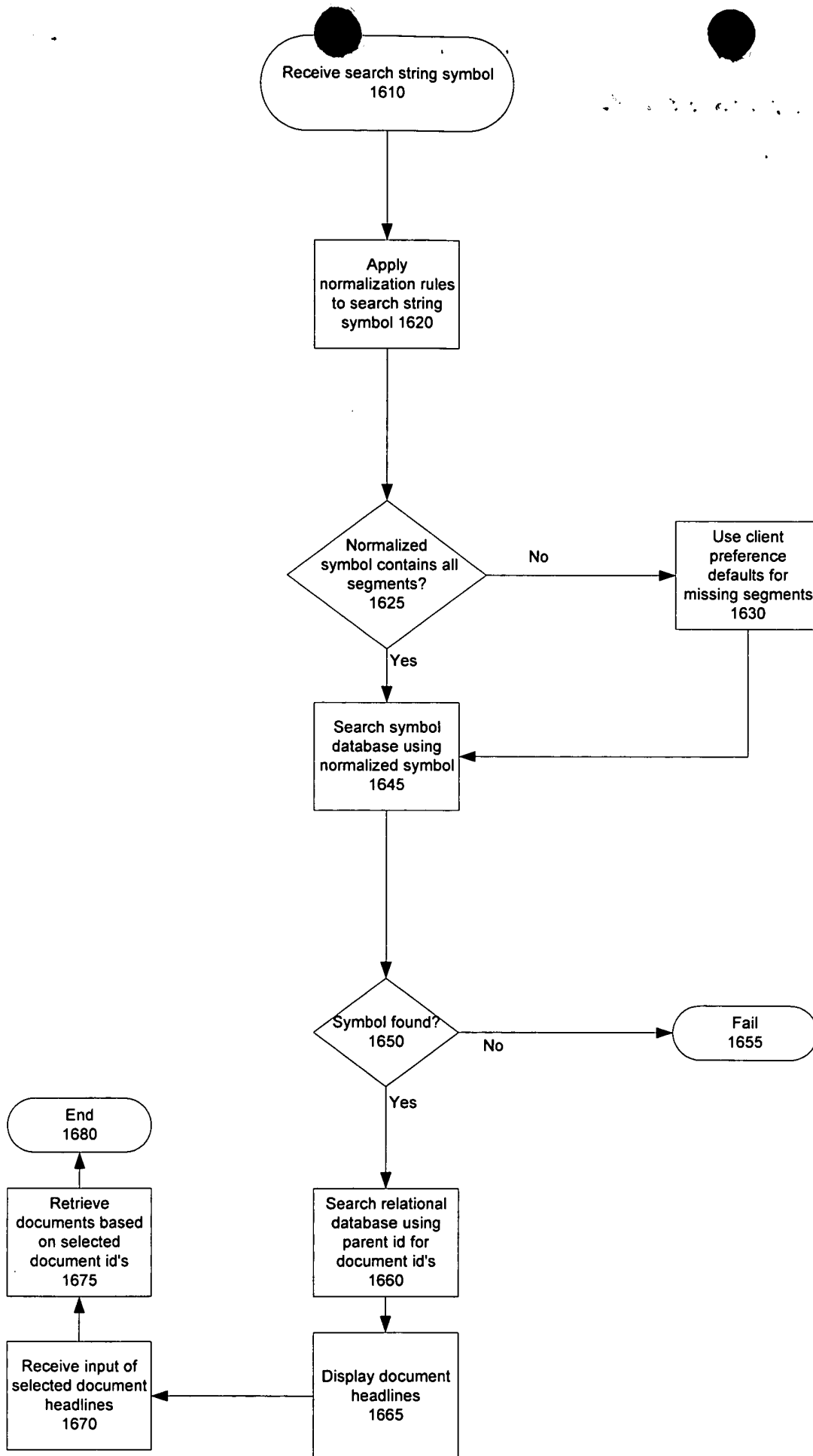


FIG. 16